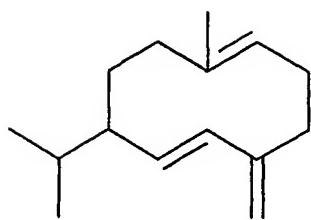
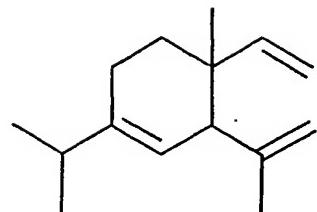


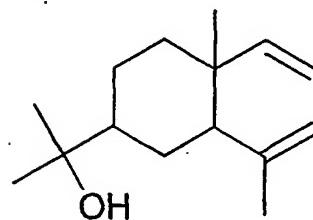
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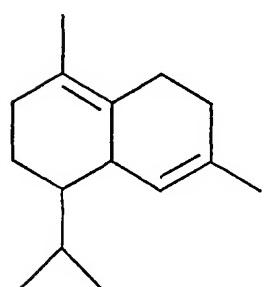
Germacrene D



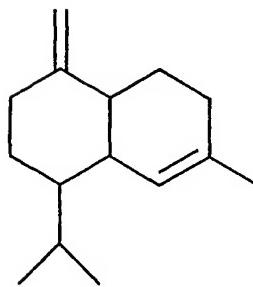
δ-elemene



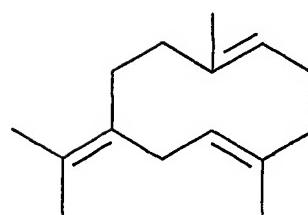
Elemol



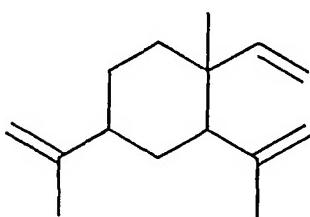
δ-cadinene



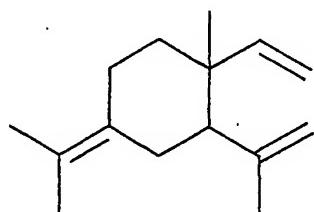
γ-cadinene



Germacrene B



β-elemene



γ-elemene

FIGURE 1

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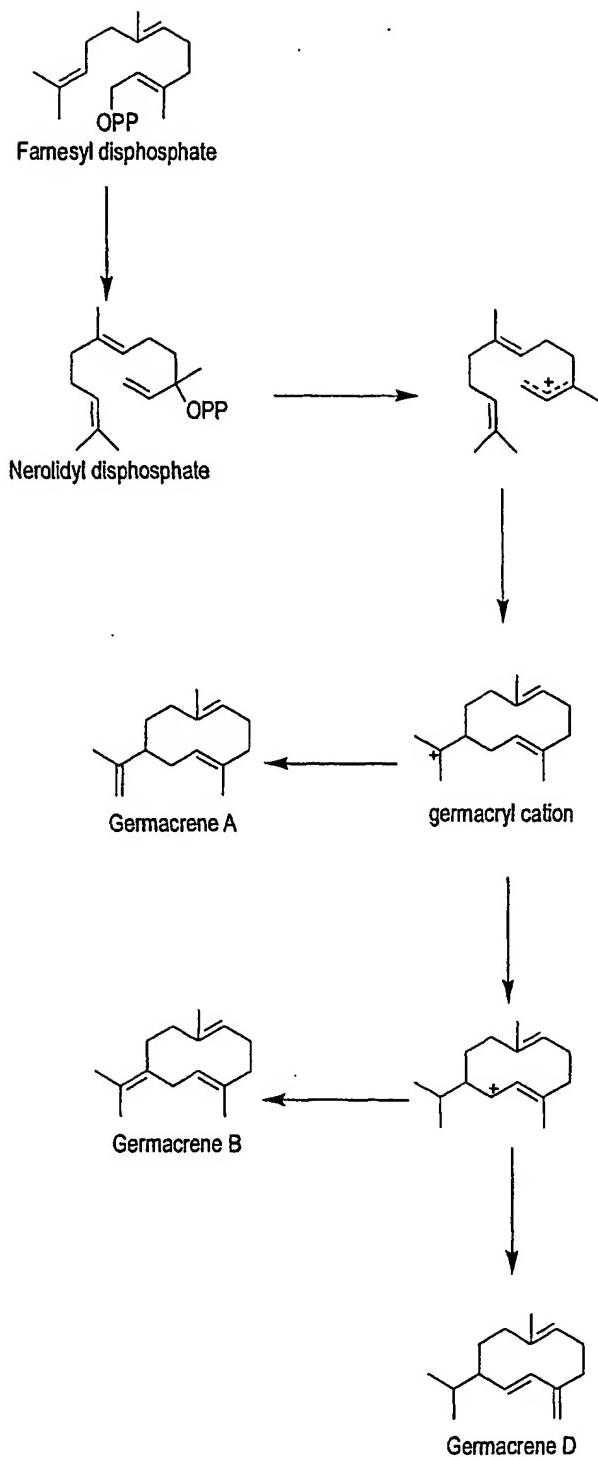
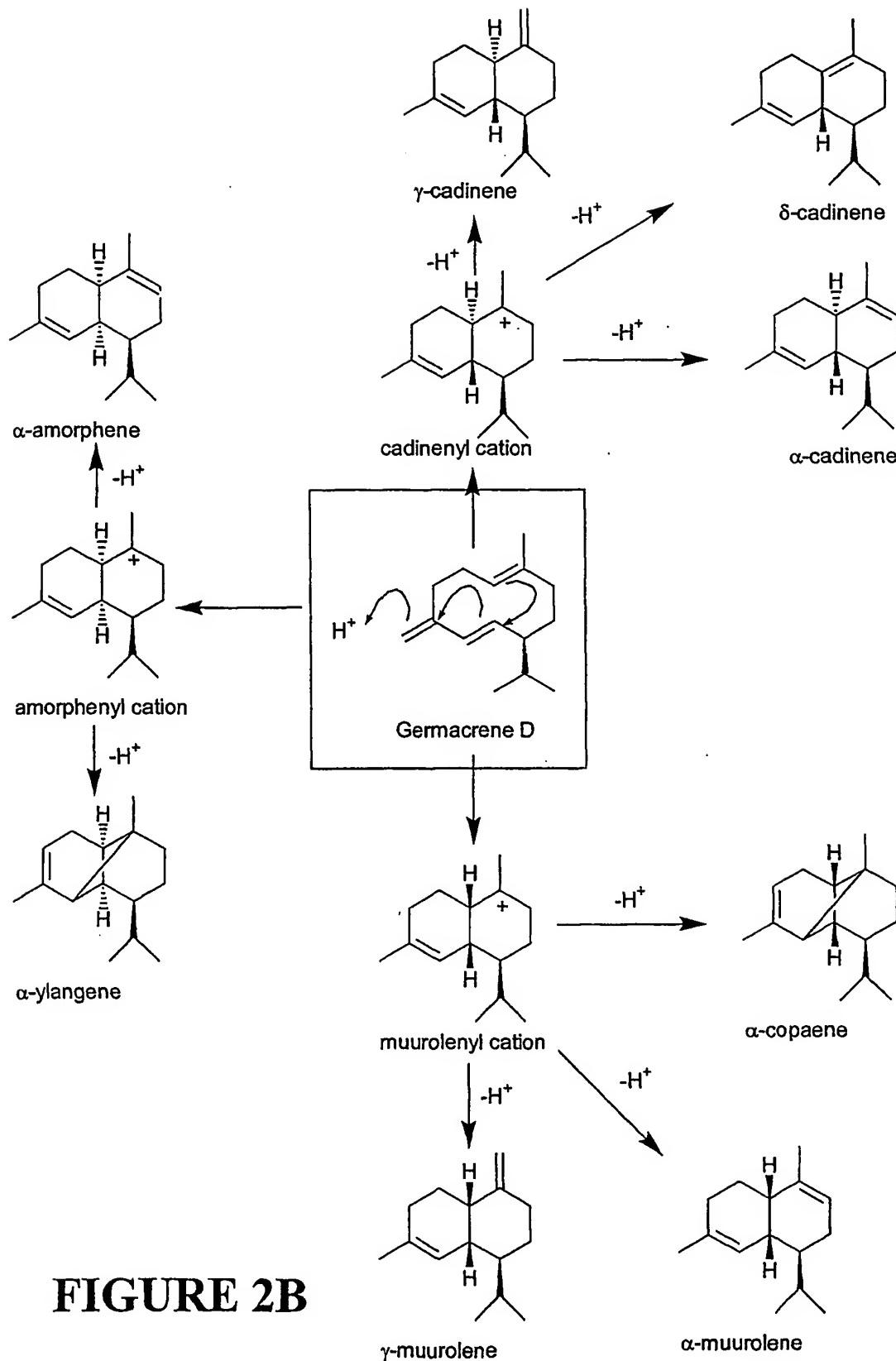


FIGURE 2A

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**FIGURE 2B**

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1 GTCAGACCA AAAAGGCGA AGATGGCG TCCATCTCA GTTTTCTC TAAATTAAT TCTTCAACC AGAAGAAA CAGGAACTA CCTTGTGTC
101 AGGCTTGCC AATTCGAACT CCTAACACCA CCATGATGC CAGTAAACCA GTCGCGCTGC AAATTTATGC CCTTGGATTG CGGGGAACTA
201 TTTCCTCCC TACTCTCC AGTCGATGC AGGGGGGGT ATTAACTGG AGGAACTCA ACCGTTCTG AGGTTGTTG AGGAGGTTG AAGGGGTTA
301 GAGGCGCTG CTGAGATG TCCAGATG CTCAGCTCG TCCAGATG CCTGAGCTTA GGCGGTTT ACCGTTGA AGGAGGTTG AGGAGGTTG
401 TACGGCACAT ATACAAACC TGTGTTTAC ATTGGATGA TCTCCACACT GTCGCTCTT CTTCGCTT AGGAGGAA CAGGAACTA CAGGTTG
501 TGTATGTC GAGAACTCA AGGAGGCA AGGGGGGGT CAGGAACTA TAACTGGAG AGGGGGGGT TGTGTTGAG AGGGGGGGT TGTGTTGAG
601 AGGATACACG AGGAGGATAT AGTAAACCA AGGAGGCTT TGTGTTGAG TGTGTTGAG CCTGAGCTGC CAGGAACTA CAGGTTG
701 TCATTCATGC TCTGAGCCG CCCATCCAG AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
801 CCTTTGGAAAT TGTGTTGAG TGTGTTGAG AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
901 AGGACACTAC CCTTGCCAG AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
1001 CCTGGGGTGT TGTGTTGAG TGTGTTGAG AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
1101 GATGAGGCC TGTGTTGAG TGTGTTGAG TGTGTTGAG AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
1201 AGATCTTAT GGTGAGACTA TGTGTTGAG TGTGTTGAG AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
1301 TGGAGAGTA TGTGTTGAG AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
1401 TGTGTTGAGT TGTGTTGAG AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
1501 CACGGGGGT CGGTGCGA AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
1601 ACATCAACG AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
1701 AGACGGATAC ACTGAACTG AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
1801 AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
1901 TGTGTTGAG TGTGTTGAG AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT
2001 AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT AGGGGGGGT

FIGURE 3

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1 MQLPCAQALP IPTVTTTSI EPPHVTRRSA NYHPSIWGDH FLAYSSDAME
51 EEVINMEQQQ RLHHLKQKVR KMLEAAAEQS SOMLNLDKI QRLGVSYHFE
101 TEIETALRHI YKTCDYHFDD LHTAALSFRL LRQQGYPVSC DMFDKFKNSK
151 GEFQESIIISD VQGMLSLYE A TCLRIHGEDI LDEALAFITIT QLRSALPNLS
201 TPFKEQIIHA LNQPIHKGLT RLNARSHILF FEQNDCHSKD LLNFAKLDNF
251 LLQKLHQREL CEITRWWKDL NFAKTLPPAR DRMVECYFWI LGVYFEPQYL
301 LARRMLTKVI AMISIIDDIY DVYGTLEELV LFTDAIERWE ISALDQLPEY
351 MKLCYQALLD VYSMIDEEMA KQGRSYCVDY AKSSMKILVR AYFEEAKWFH
401 QGYVPTMEEY MQVALVTAGY KMLATSSFVG MGDLATKEAF DWVSNDPLIV
451 QAASVIGRLK DDIVGHKFEQ KRGHVASAVE CYSKQHGTTE EAIIIELDKQ
501 VTHSWKDINA ECLCPIKVP M PLLARVLNLA RVLYVIYQDE DGYTHPGTKV
551 ENFVTSVLID SMPIN*

FIGURE 4

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>EST72838 (*A. deliciosa* variant of multifunctional germacrene D synthase)
CTAAAATAGGCCAAGTGTAGGTTCATCTCTAGTTTCTCTGAAAACAAAAATAGGCCAAGTG
TGTAGGTTCATCTCTAGTTTCTCTGAAAACAAAAATAGGCCAAGTGTAGGTTCATCTCTAG
TTTTCTCTTAAATTAACTTCACCCAGAAAAAAACATGCAACTACCTTGTGCTCAAGCTTT
GCCAACATCCAACACTGTTACAACCAACACTAGTATTGAACCACACATGTAACTCGTCGATCTGCAA
TTATCATCCTAGCATTTGGGAGATCATTCCCTCGCTACTCTCCGATGCTATGGAAGAAGAGGA
TATTAACATGGAACAACAACAGACTTCATCACCTGAAACACAAAAGGTGAGAAAAATGCTAGAGGC
AGCTGCTGAACAATCTCACAGATGCTGAACCTCGTGACAAAATCCAACGCTTAGGGGTGCTTA
CCATTGAAACTGAGATGCCAACAGCTTACGGCACATATAACAAAACCTGTGATTACCATTTGA
TGATCTCCACACTGCTCTCTCTGGTTACTTAGACAACAAGGATATCCAGTTCTTGTGA
TATGTCGACAATTCAGAACAGCAAAGGTGAATTCAAGAACATCCATAATCAGCGATGTGCGAGG
AATGTTAAGTTGTATGAAGCTACATGCTAATGATAACCGGAGAAGATATACTAGACGAAGCACT
AGCTTTACCATCACTCAACTTCGGTCCGATTGCCAACCTTAAGCACTCTTCAAGGAACAAAT
CATTGCTCTGAACCAGCCCATTCCACAAGGGGTGACAAGGCTCAATGCAAGGAGCCACATTT
ATTTTGAACAGAATGATTGCCATAGCAAAGACCTTTGAATTTCGCAAAATTAGATTCAACTT
ATTACAAAAGTTGCACCAGAGGGAGCTATGTGAAATCACAAGGT.....
.....
.....
.GAGATCAGTGCCTGGATCAACTCCAGAGTATATGAAACTATGTTATCAAGCACTTTGGATGT
TTATAGTATGATTGATGAAGAGATGGCGAAGCAAGGAAGATCTTATTGCGTAGACTATGCAAATC
TTCAATGAAAATTGGTTAGAGCATACTCGAAGAAGCCAATGGTTACCAAGGATATGTTCC
AACTATGGAAGAGTATATGCAAGTTGCTATTAGTAACCGCGGGTACAAATGCTTGCACACCTCTC
CTTGTGGCATGGAGAGTTGGCAACCAAGAGGCCTTGATTGGGTGTCATGATCCTTAAT
TGTCAAGCTGCATCAGTGATAGGCAGACTCAAGGATGACATTGGCCACAAGTTGAGCAAA
GAGAGGGCAGTGGCTCGGCTGTTGAATGCTACAGTAAGCAACATGGTACAACAGAGGAAGAGGC
TATTATTGAATTGTATAAACAGTTACACATTGAAAGACATGAACGCAGAGTGCCCTCTGCC
AACCAAGGTCCAATGCCCTTGTGCGAGTTCAATCTGCACGAGTGCTTATGTTATATA
CCAGGATGCAGATGGCTACACTCATTGAAACCAAGGTCAAGAACTTGTAAACCTCAGTGCTTAT
CGATTCTATGCCAATCAATTAGAAAATTAAACAGACACTGAAGTGGAGGTATAAATAATTCAA
AGTGATTAAAGTTGGCTAGTGAACGGGATTCTACCATTAAGAGATATTCTGCTAAAAGC
AATTAAATTCAATGCATTCCAATAAAATAATTAGCCAGCTGTTGTCAAAAAAA

FIGURE 5

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>EST 80968 (*A. deliciosa* variant of multifunctional germacrene D synthase)
CTAAAATAGGCCAAGTGTAGGTTCATCTCTAGTTTCTCTGAAAACAAAAATAGGCCAAGTG
TGTAGGTTCATCTCTAGTTTCTCTTAAATTAACTCCTCAACCCAGAAAAAAACATGCAACTA
CCTTGTGCTCAAGCTTGCAATACCAACTGTTACAACCAACACTAGTATTGAACCACCATGTA
ACTCGTCGATCTGCAAATTATCATCCTAGCATTGGGGAGATCATTCCCTCGCCTACTCTCCGAT
GCTATGGAAGAAGAGGATATTAACATGGAACACAACAACGACTCATCACCTGAAACAAAAGGTG
AGAAAAATGCTAGAGGCAGCTGCTAAACAATCTCACAGATGCTGAACCTCGACAAAATCCAA
CGCTTAGGCGTGTCTTACCATTTGAAACTGAGATGAAACAGCTTACGGCACATATAACAAAACC
TGTGATTACCAATTGATGATCTCCACACTGCTGCTCTCTTCTGGTTACTTAGACAACAAGGA
TATCCAGTTCTTGACATGTTGGCAAATTCAAGAACTGCAAAGGTGAGTTCAAGAATCCATA
ATCAGCGATGTGCGAGGAATGTTAAGCTTGATGAAAGCTACATGCTAAGGATAACGCGGAGAAGAT
ATACTAGACGAAGCACTAGCTTACCAACACTCAGCTCAGTCAGTCATTGCCAACTTAAGCACT
CCTATCAAGGAACAAATCATTATGCTGAACCAGCCCATTCCACAAGTGGTGACAAGGCTCGAC
GCAAGGCACATTTATTCTGAAACAGAATGATTGCCATGGAAAGACCTTGAATTTCGCA
AAATTAGATTCAACTCGTTACAAAAGTTGACCCAGAGGGAGCTATGTTGAAATCACAAGGTGG
AAAGATCTGGATTGCAAGAAACTACCTTTGCCCCATATTGCGTGTAGGAGGATGCTAACCAAGGTGATTGCC
ATACTGGGGTGTACTTGAGCCCCAATATTGCGTGTAGGAGGATGCTAACCAAGGTGATTGCC
TTGACTTCCATTATCGATGACATCTACGATGTCACGGTACCTTGAAGAACTTGTCTTCACT
GATGCAATTGAGAGGTGGGAAATTAGTGCCTTGGATAACCTTCAGATTATGAAACTATGTTAT
CAAGCACTTTGGATGTTATAGTATGATGATGAAAGAGATGGCCAAGCAAGGAAGATCTTATTGC
GTAGACTATGCAAATCTCAATGAAAATTGGTTAGAGCATACTCGAAGAAGCCAATGGTT
CACCAAGGATATGTCACATGGAAGAGTATATGCAAGTGTGATTAGTAACCGCGGGTACAAA
ATGCTGCAACCTCTTGTGGCATGGAGAGTTGGCAACCAAAGAGGCCCTTGATTGGGTG
TCAAATGATCCTTAATTGTCAGCTGCATCAGTGATAGGCAGACTCAAGGATGACATGTTGGC
CACAAGTTGAGCAAAAGAGAGGGCACGGCGTGGCTGCAATGCTACAGTAAGCAACATGGT
ACAATAGAGGAAGAGGCTATTATTGAAATTGATAAAACAAGTTACACATTGAAAGACATCAAC
GCAGAGTGCCTCTGCCAATCAAGGCTCAAGGCTCTTGTGGCGAGTTCTCAATTTGCACGA
GTGCTTATGTTATACCAAGGATGAAAGACGGCTACACTCATTGAAACCAAGGTCAAGAACTTT
GCAACCTCAGTGTATGATTCTATGCAATCAATTAGAAAATGTAACAAGACACTGAAGTGGAG
GCATAAAATAATTCAAAAGTTGGCTTAAAGTTGGCTAAAAAAAAAA

>EST 304951 (*A. chinensis* variant of multifunctional germacrene D synthase)
ATCTTATTGCGTAGACTATGCAAATCTCAATGAAAAGTTGGTAGAGCATACTCGAACAG
CAAATGGTTTACCAAGGATATGTTCAACTATGGAAGAGTATATGCAAGTGCATAGTAACCGG
GGCTTACAAAATTCTGCAACCAACTTCTTGTGGCATGGAGAGTTGGCAACCAAAGAGGTCTT
TGATTGGGTGTCAAATGATCCTTAATTGTTCAAGCTGCATCAATTGTTCCAGACTCACGGATGA
CATTGTTGCCACAAGTTGAGCAAAAGAGAGGGCACGTGGCATGGCGTTGAATGCTACATGAA
GCAACATGGTACAACAGAGGAAGAGGCCATTGTTGAATTGTTAGCAAGTTACAAATGCAATGGAA
AGACATGAAATGCAAGAGTGCCTCTTCCCCACCAAGGCTCAATGCTCTCTGTGAGAGTTCTCAA
TCTGCACTGAGTATTGTTATACAAGGATGAAAGATGGCTACACTCATTCAAGAACCAAGGT
TAAGAAAATTGTCAGTGTAGATTGCGATCAGTAGCAAACGTTCTCTAC
CACATGTTAATTGCTGCTAATGCAAGTTACTAATATGAAATTAAATAATGCGTATTTC
CAATAAGGAATTAAAAAA

>EST 82293 (*Vaccinium corymbosum* variant of multifunctional germacrene D synthase)
GGAAGCCAAATGGTTCATGAAAGTTATGTTCCGAGTATGGAAGAGTATATGAGAGTTGCACTGGT
TACCGGTGCTTACAAAATGCTGCAACCAACTTCTTGTGGCATGGGGATTGGTGACCAAAGA
GGCCTTGAATGGGTGTCAAAGTGTGATCCTTAATTGTTGAAGCTGCATCGTGTGATTGCAACTCAT
GGATGATATGGCAGGCCACAAGTTGAGCAAGAGAGAGGACACGGTGGCTCGGCAGTTGAATGCTA
CATGAAACAACATGGTGCAACACAAGAAGTGGTCTCTGAAATTAAAAAAAGAGTTACAAATGC
ATGGAAGACATGAACGCAAGAGTGCCTCCGCCAACTGCCGTTCAATGCCCTCCTCACCCGAGT
TCTCAATCTCGCACGAGTGTACAATGTTATACAAGGATGAAAGATGGGTACACTCATTCTGGAAC
AAAGCTCAAGAACATTGTAATCTCAGTGTGTTATGATTCTGTGGCATCAATTAGCAAACAGTAGT
CCTAACTTAAATAATGTTGGCTTATAACTTATAAGTGTGCGAAATGTTCTAGTGAACCTGGT
AAGGATGTTTCCGATATGAGCTCTATCTCCACTGTCAGGGTTGAAATCTGCTCTCTACTA
AGAAAGCTCATTAATGCGTCTAAAGTAAAGCCAACCTGCTCAAGTTATCGTCAAACAAGTT
CTGTTTACGATTGGAAAAAA

FIGURE 5 (continued)

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>72838

MQLPCAQALPIPTVTTNTSIEPPHVTRRSANYHPSIWGDHFLAYSSDAMEEEDINMEQQQLHHLK
QKVRKMLEAAEQSSQMLNLVDKIQRLGVSYHFETEITETRHIYKTCDYHFDDLHTAALSFRLLR
QQGYPVSCDMFDKFKNSKGEFQESIISDVRGMLSLEYATCLMIHGEDIILDEALAFITITQLRSALPN
LSTPFKEQIIHALNQPIHKGLTRLNARSHILFFEQNDCHSKDLLNFAKLDNFNLLQKLHQRELCEIT
R~~~~~
~~~~~EISALDQLPEYMKLCYQALLDVYSMIDEEMAKQGRSYCVDYAKSSMKILVRAYFEA  
KWFHQGYVPTMEEYMQVALVTAGYKMLATSSFVGGMELATKEAFDWVSNDPLIVQAASVIGRLKDD  
IVGHKFEQKRGHVASAVECYSKQHGTTEEEAIIELYKQVTHSWKDMNAECLCPKVPMPPLLARVLN  
LARVLYVIYQDADGYTHSGTKVKNFVTSLIDSMPIN

>80968

MQLPCAQALPIPTVTTNTSIEPPHVTRRSANYHPSIWGDHFLAYSSDAMEEEDINMEQQQLHHLK  
QKVRKMLEAAAKQSSQMLNLVDKIQRLGVSYHFETEITETRHIYKTCDYHFDDLHTAALSFRLLR  
QQGYPVSCDMFGKFKNCKGEFQESIISDVRGMLSLEYATCLRIRGEDILDEALAFITTQLQSALPN  
LSTPIKEQIIHALNQPIHKWLTRLARRHILFFEQNDCHGKDLLNFAKLDNFNLLQKLHQRELCEIT  
RWWKDLDFAKKLPFARDRMVECYFWILGVYFEPQYLRARRMLTKVIALTSIIDDIYDVYGTLELV  
LFTDAIERWEISALDNLPDYMKLCYQALLDVYSMIDEEMAKQGRSYCVDYAKSSMKILVRAYFEA  
KWFHQGYVPTMEEYMQVALVTAGYKMLATSSFVGGMELATKEAFDWVSNDPLIVQAASVIGRLKDD  
IVGHKFEQKRGHVASAVECYSKQHGTTEEEAIIELDKQVTHSWKDINAECCLCPIKVPMPPLLARVLN  
LARVLYVIYQDEDGYTHSGTKVKNFATSVLIDSMPIN

>304951

YCVDYAKSSMKSLSVRAYFEEAKWFHQGYVPTMEEYMQVAIVTGAYKILATTSFVGGMELATKEVFD  
WVSNDPLIVQAASIVSRLTDDIVGHKFEQKRGHVASAVECYSKQHGTTEEEAIVELYKQVTHSWKDINAECCLCPIKVPMPPLLARVLN  
MNAECLFPTKVPMPPLLVRVLNLARVINVLYKDEDGYTHSRTKVKKFVTSLVDFVPIS

>82293

EAKWFHEGYVPSMEEYMVALVTGAYKMLATTSFVGMDLVTKEAFEWSSDPLIVEAASVICRLM  
DDMAGHKFEQERGHVASAVECYSKQHGATQEVLLEFKKRVTHSWKDINAECLRPTAVPMPLLTRV  
LNLRVINVIYKDEDGYTHSGTKLKNFVISVLIDSVPIN

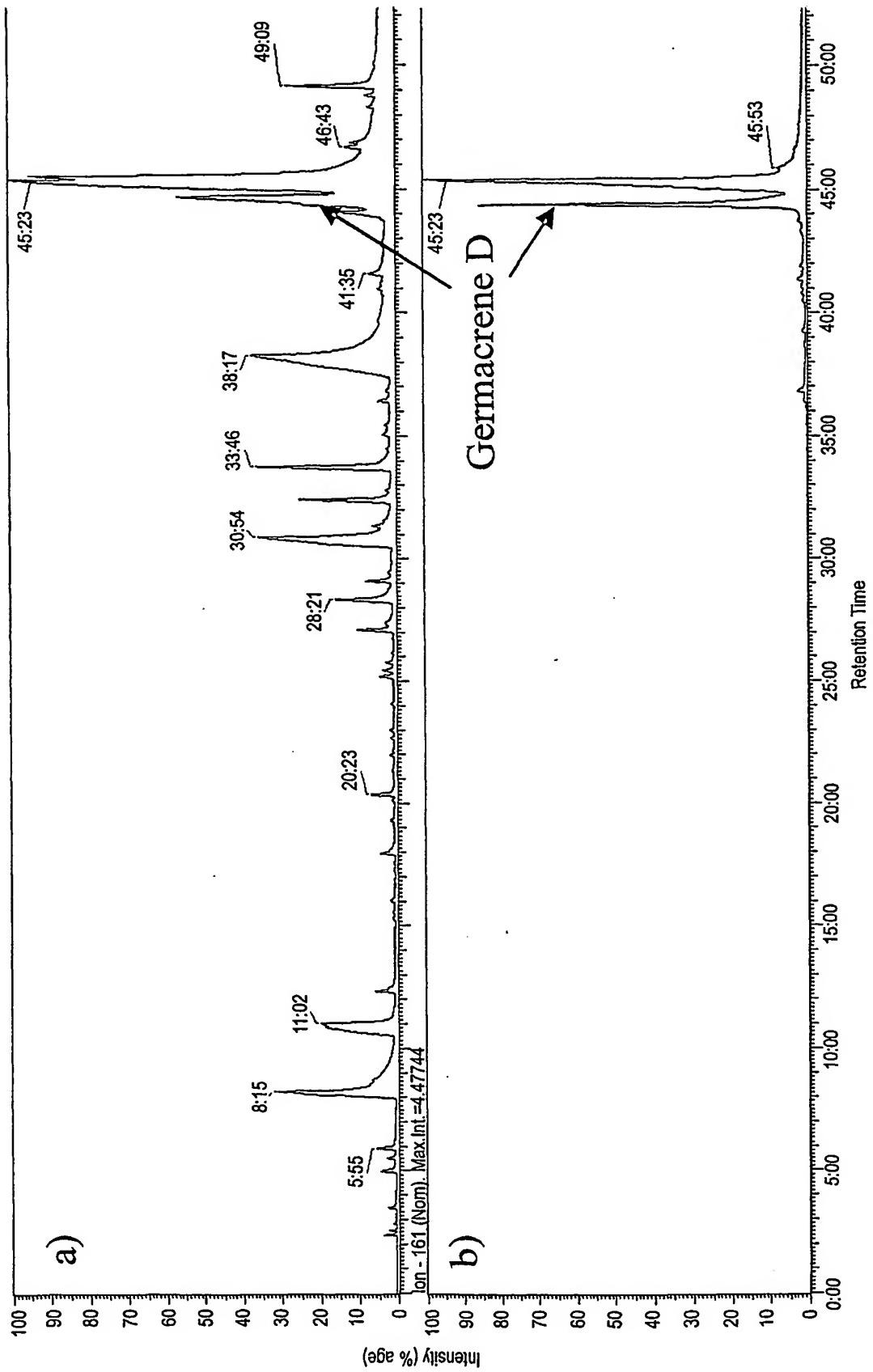
## FIGURE 6

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FIGURE 7

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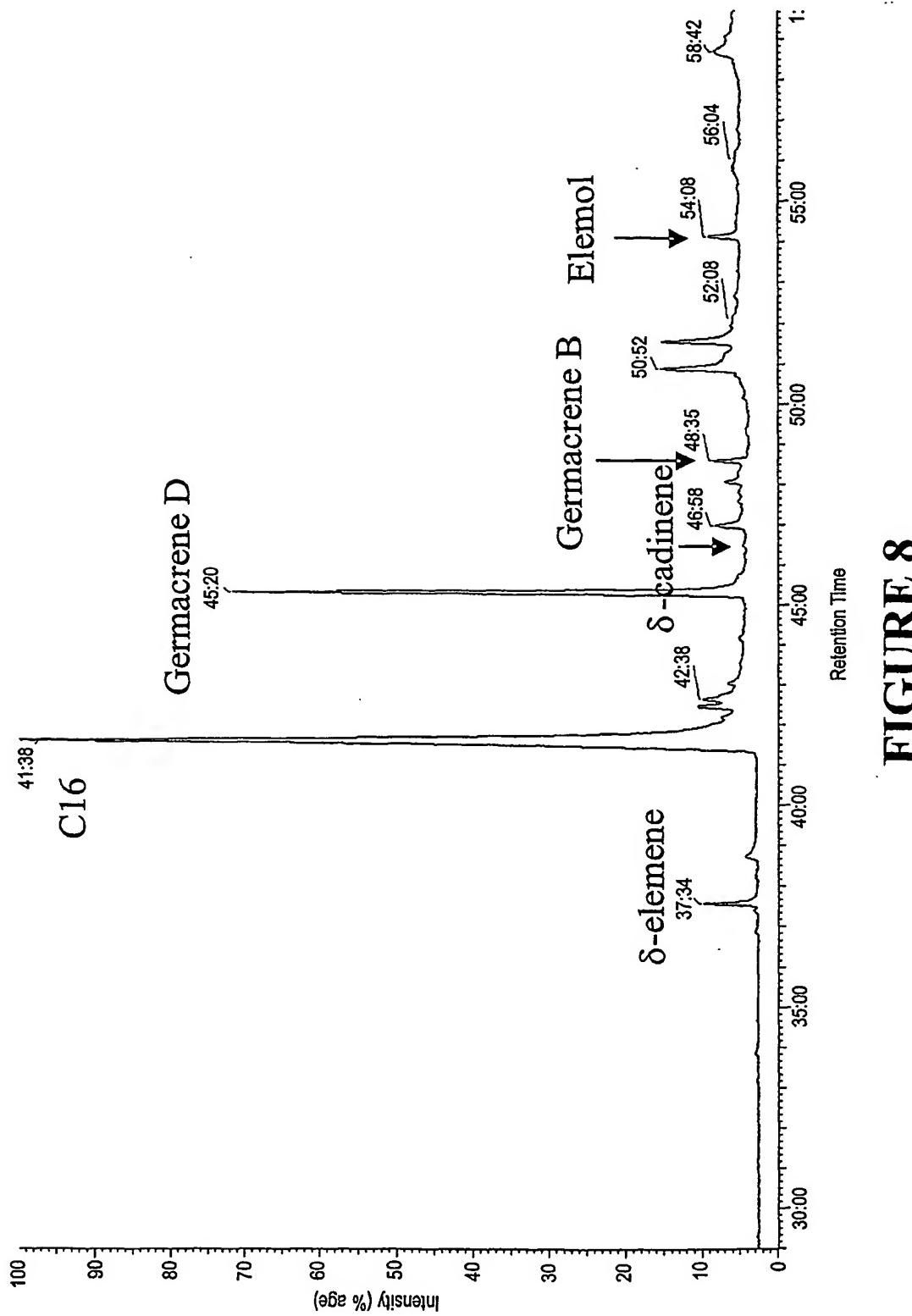


FIGURE 8

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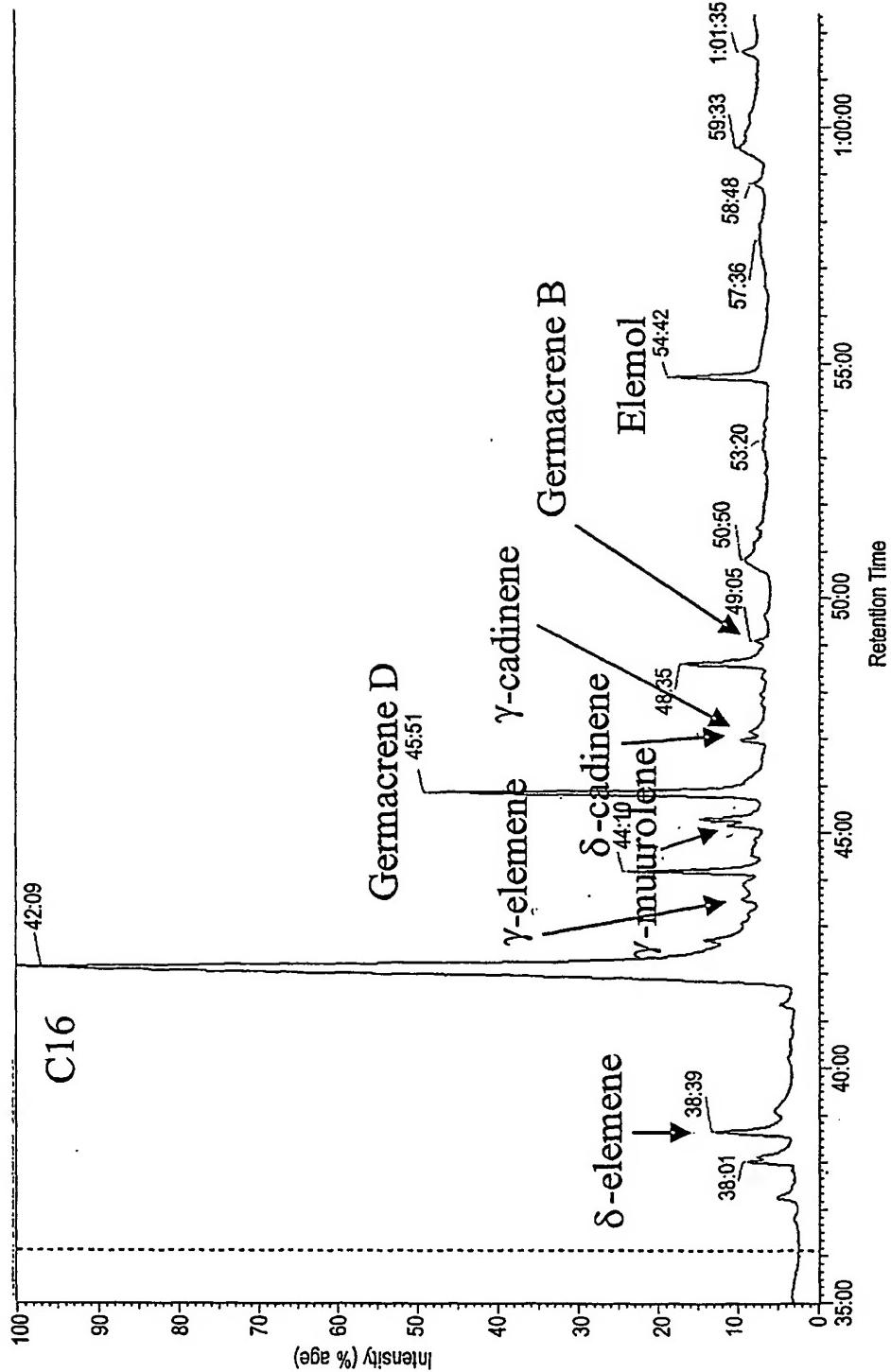


FIGURE 9

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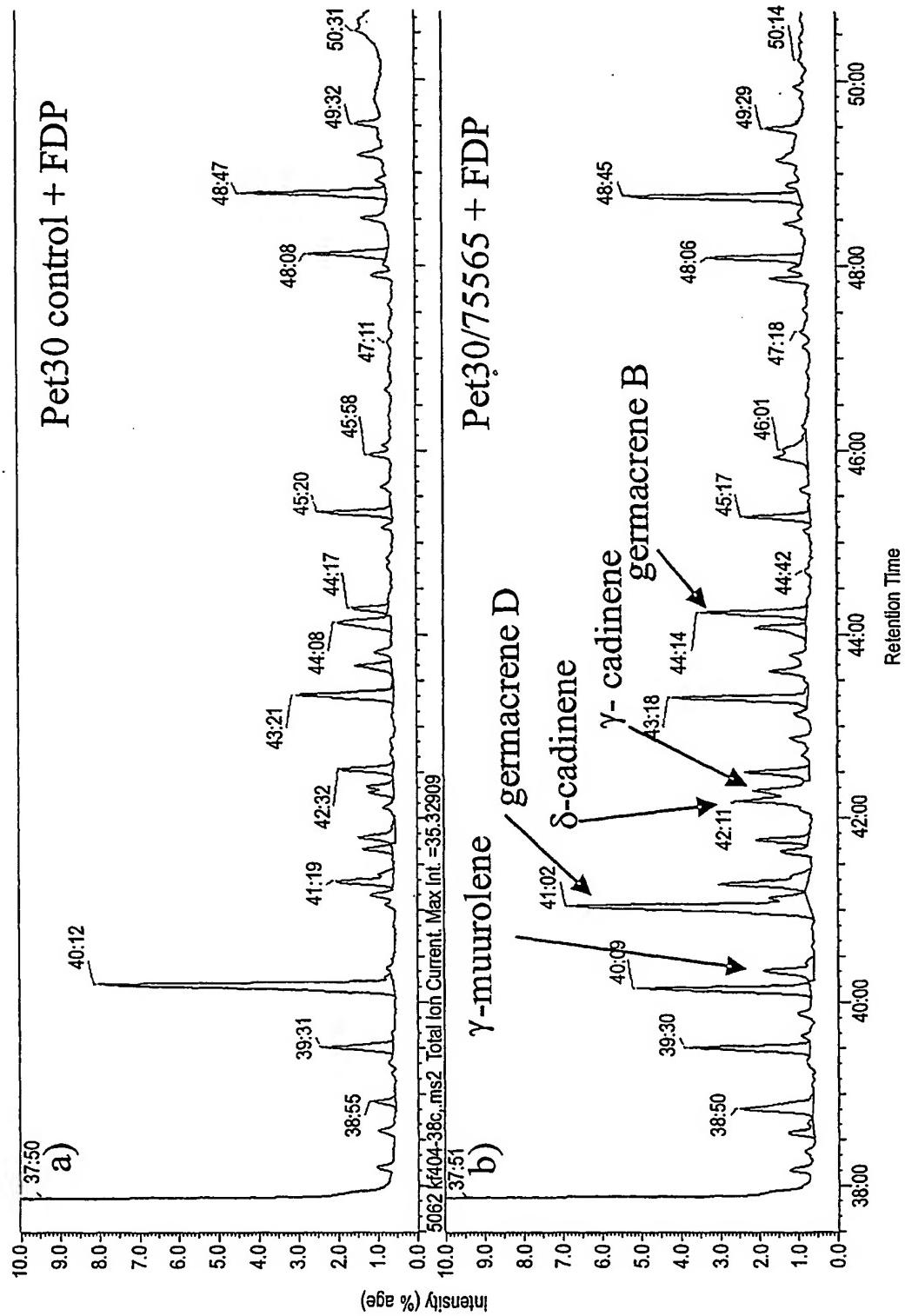


FIGURE 10

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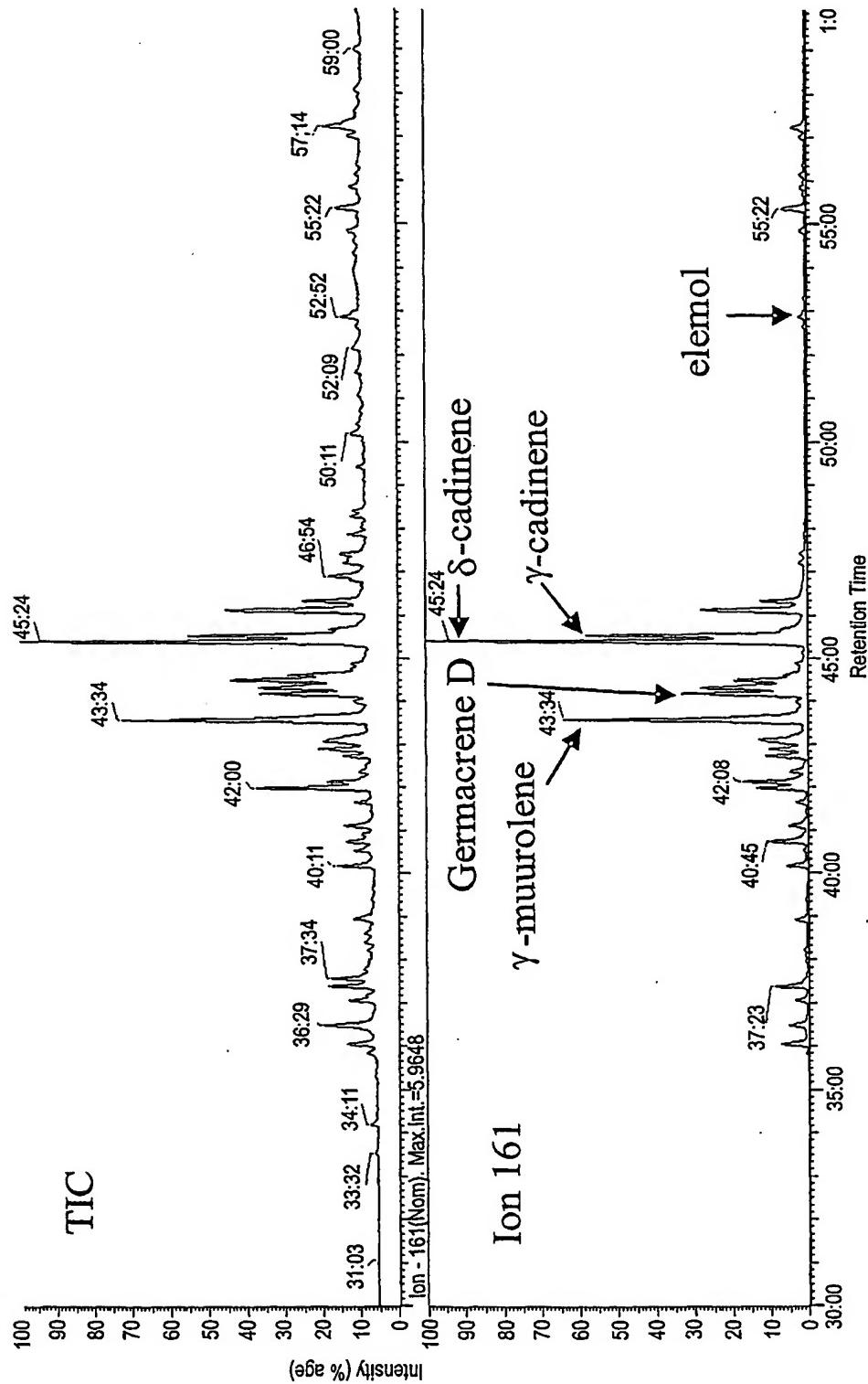


FIGURE 11

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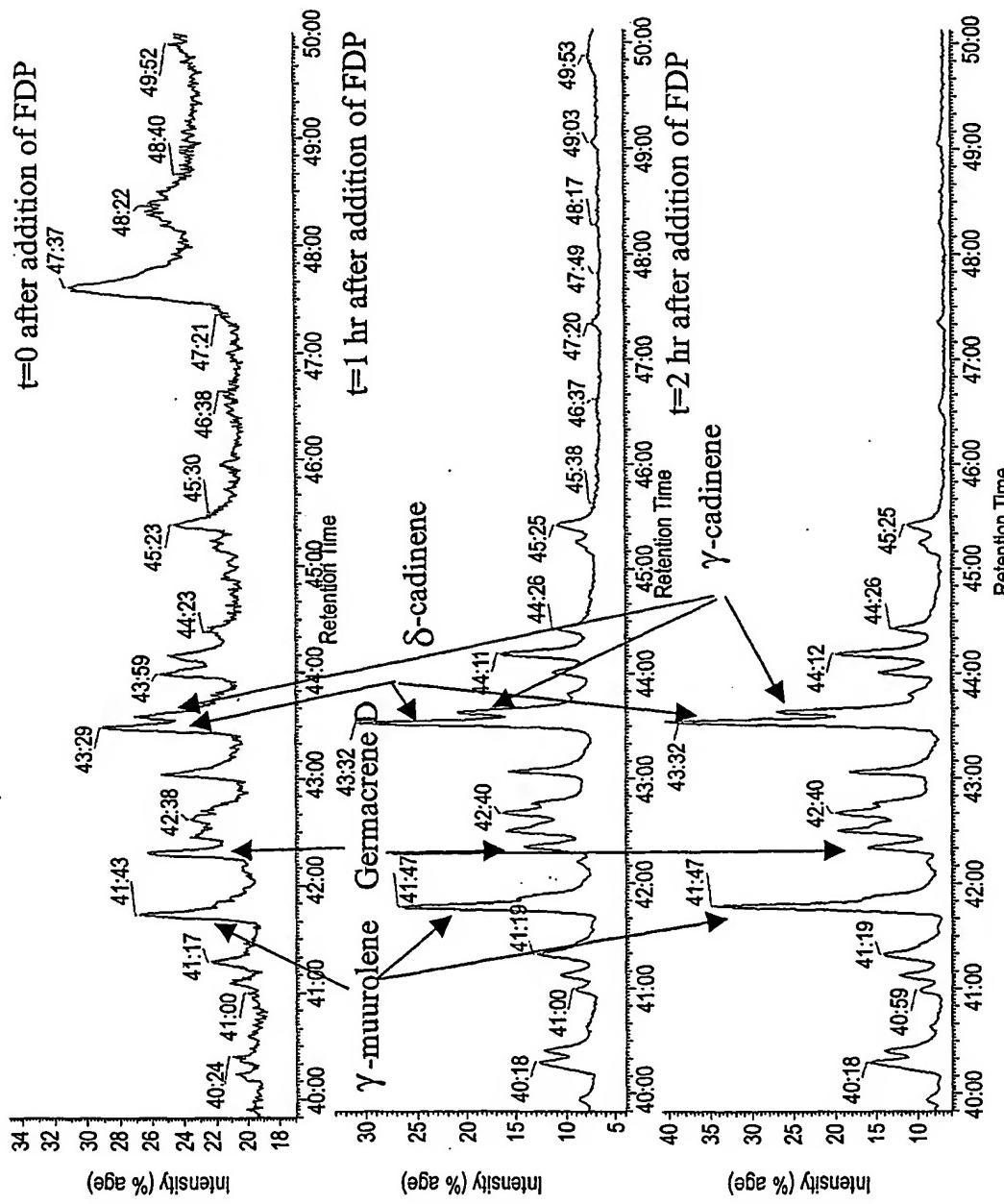


FIGURE 12

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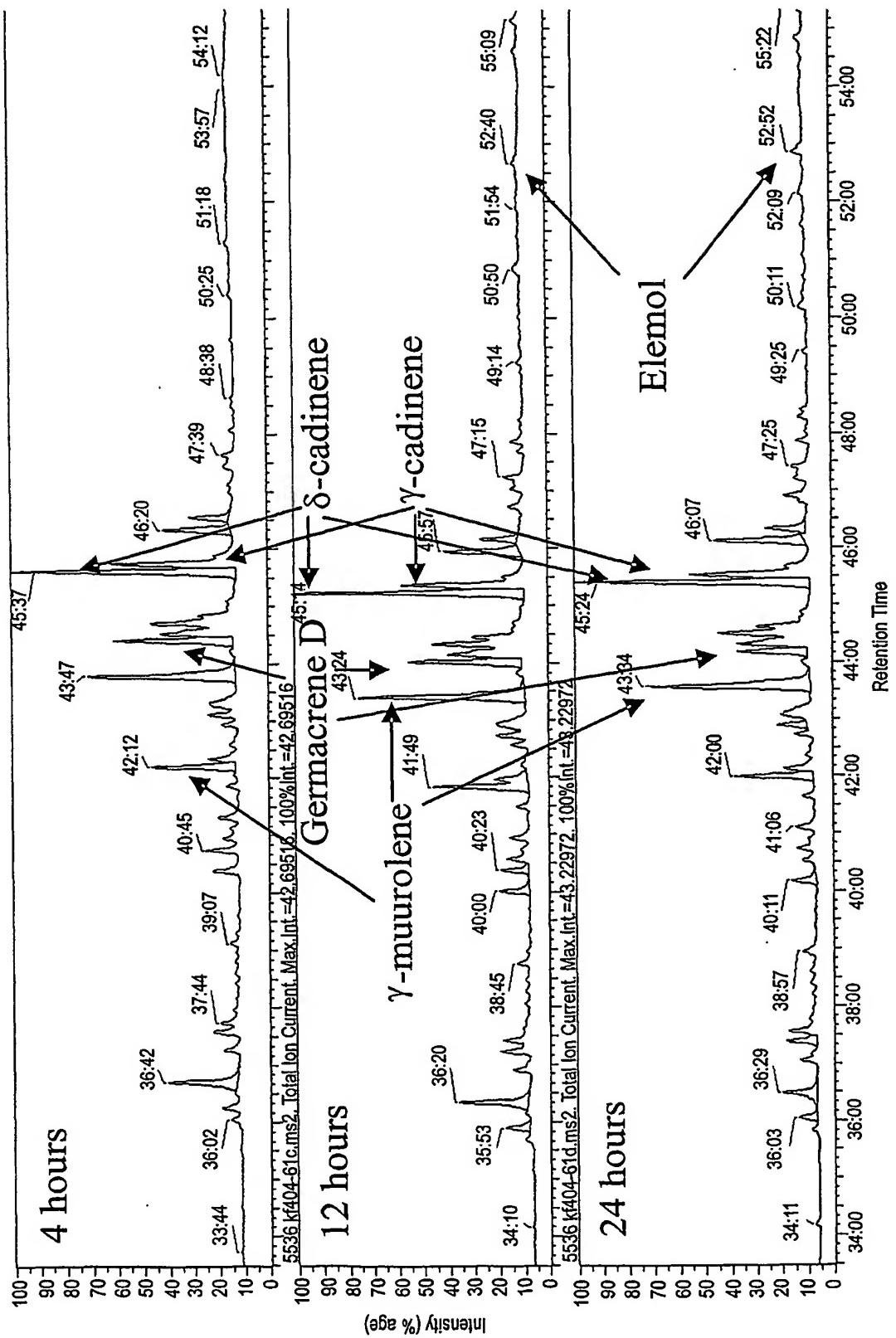


FIGURE 13

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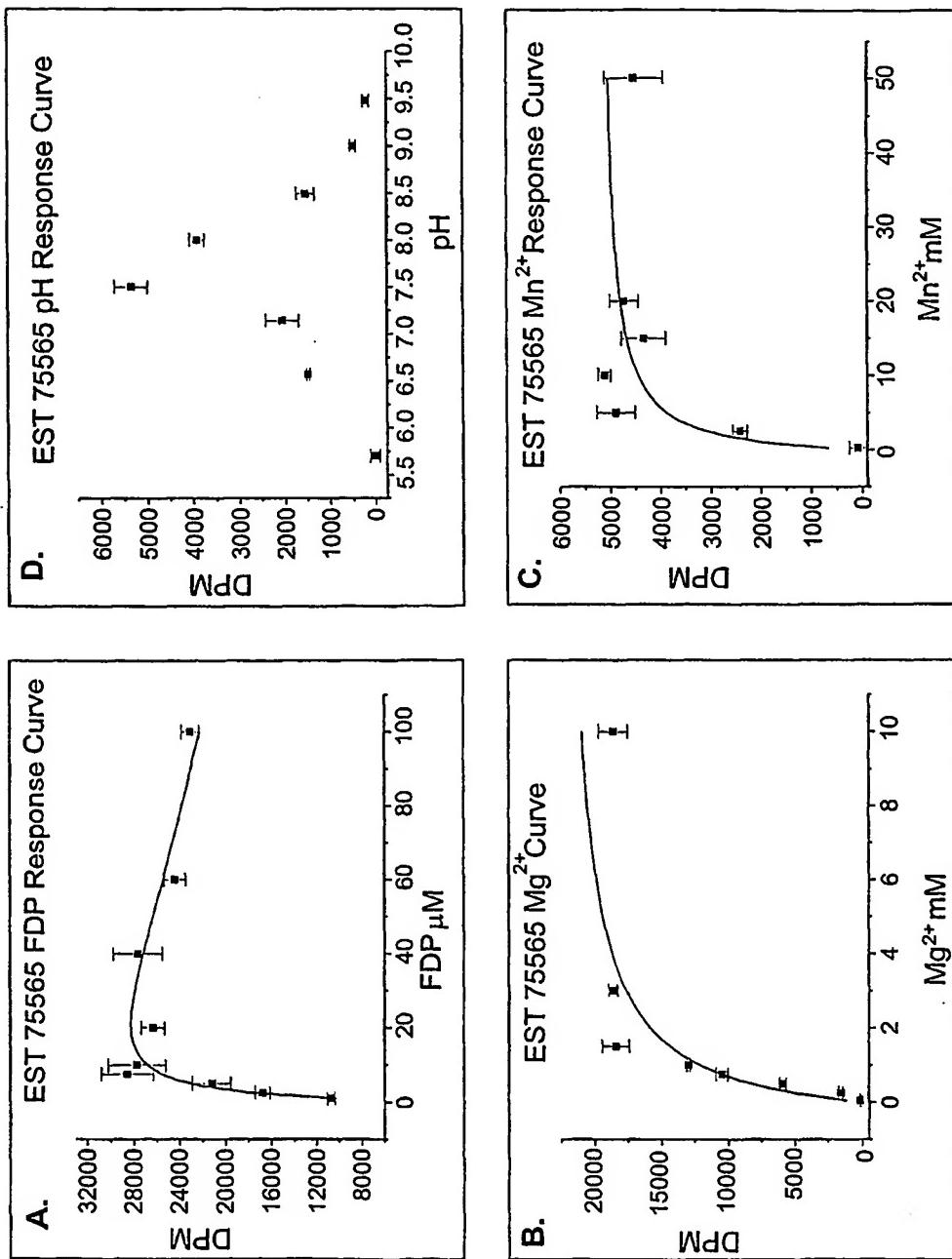


FIGURE 14

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EST 75565 Temperature Response

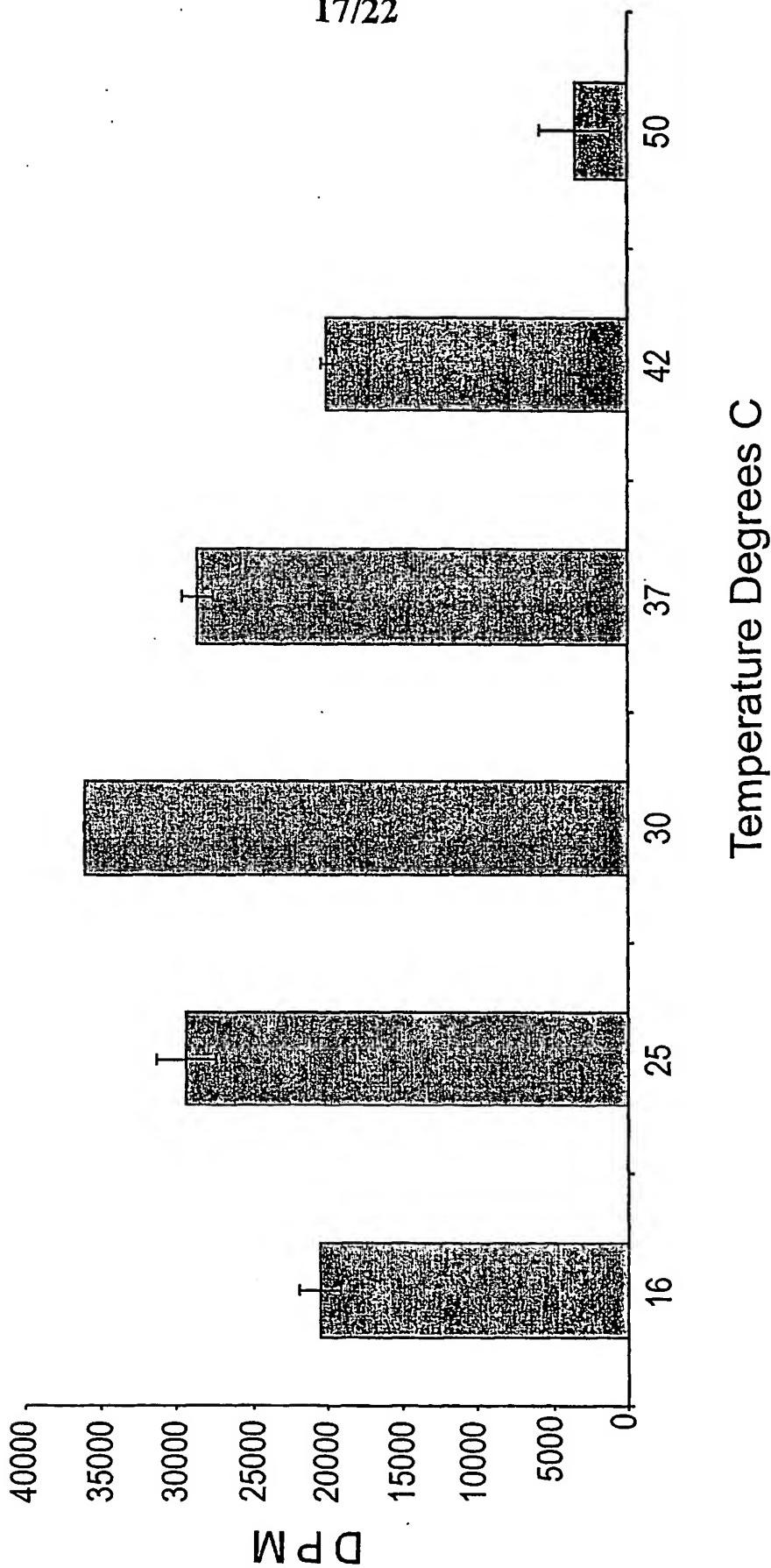


FIGURE 15

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EST 75565 Metal Ion Responses

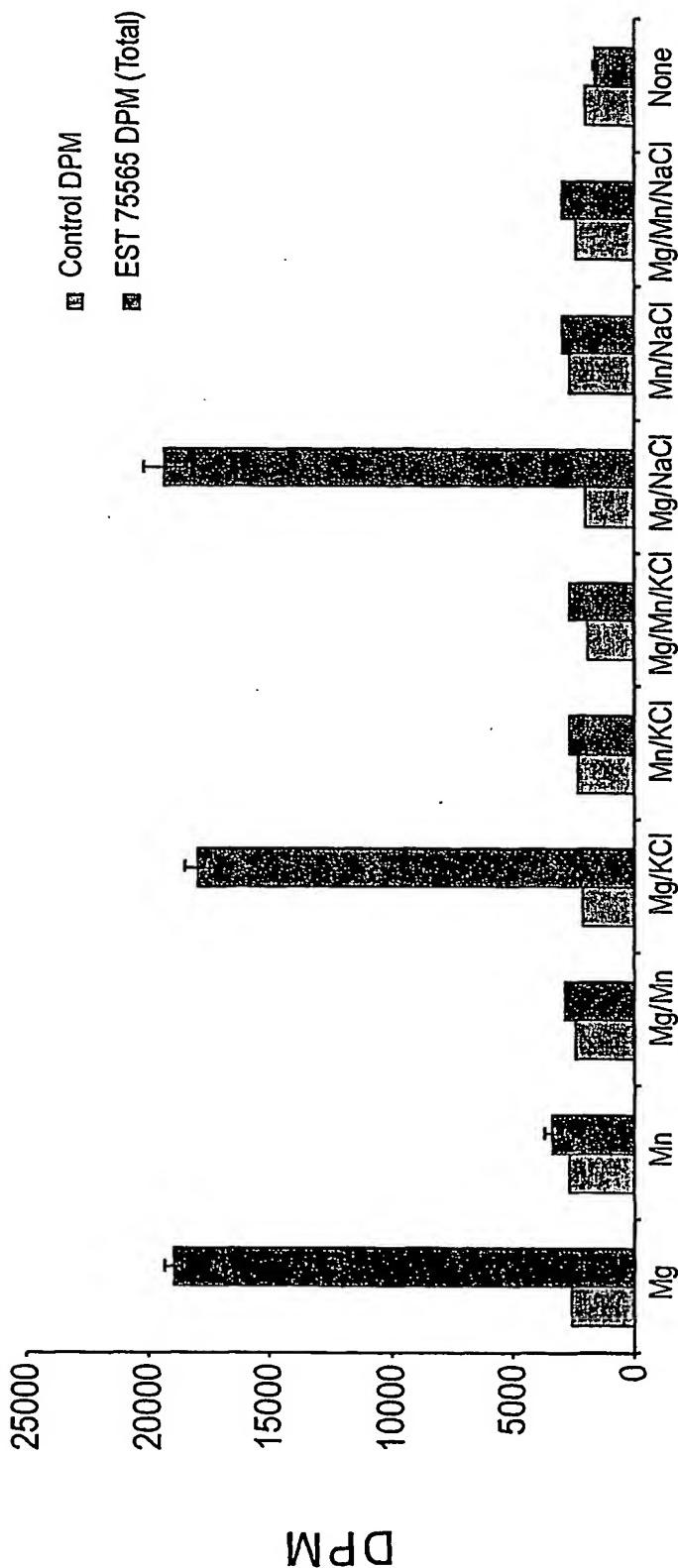


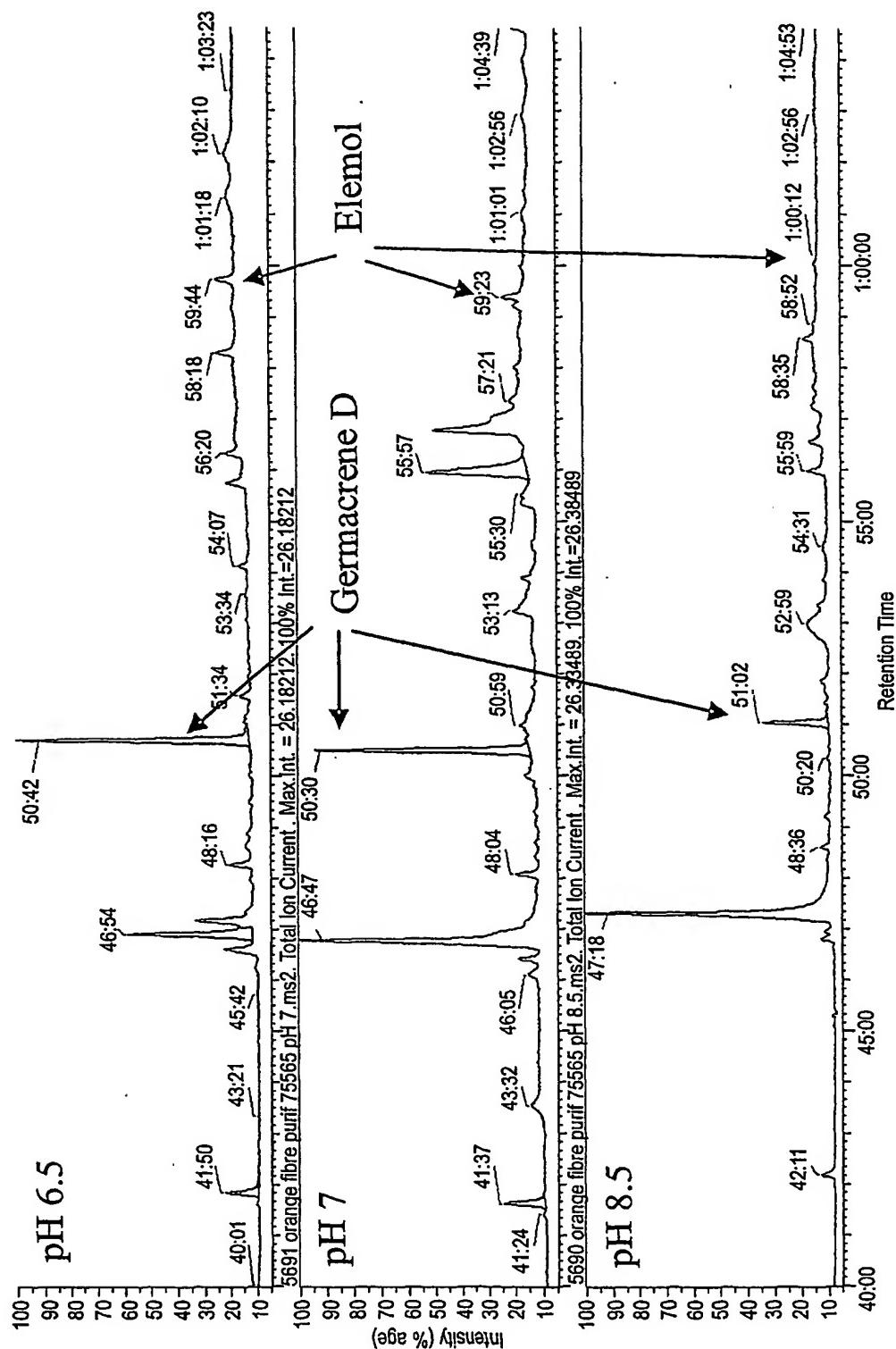
FIGURE 16

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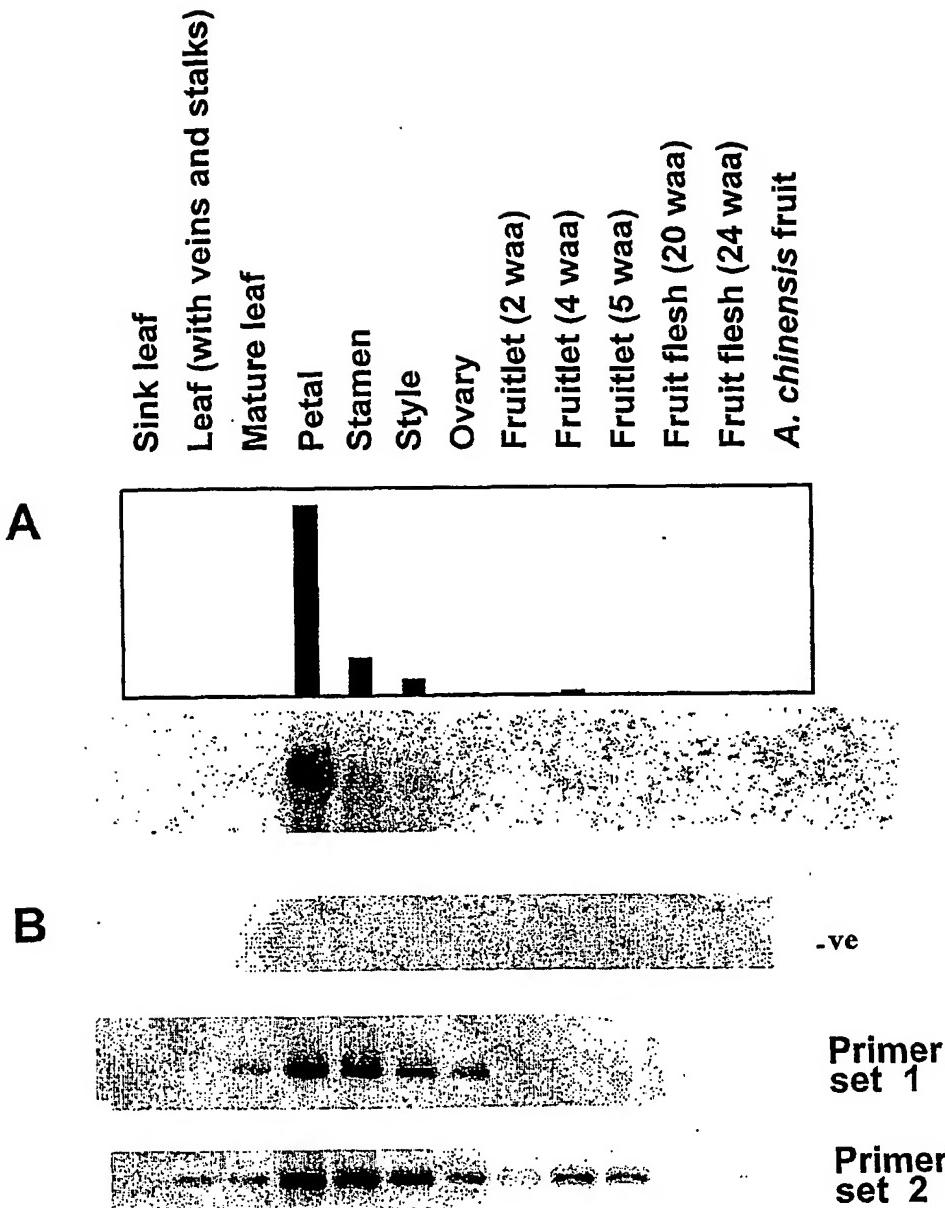
FIGURE 17

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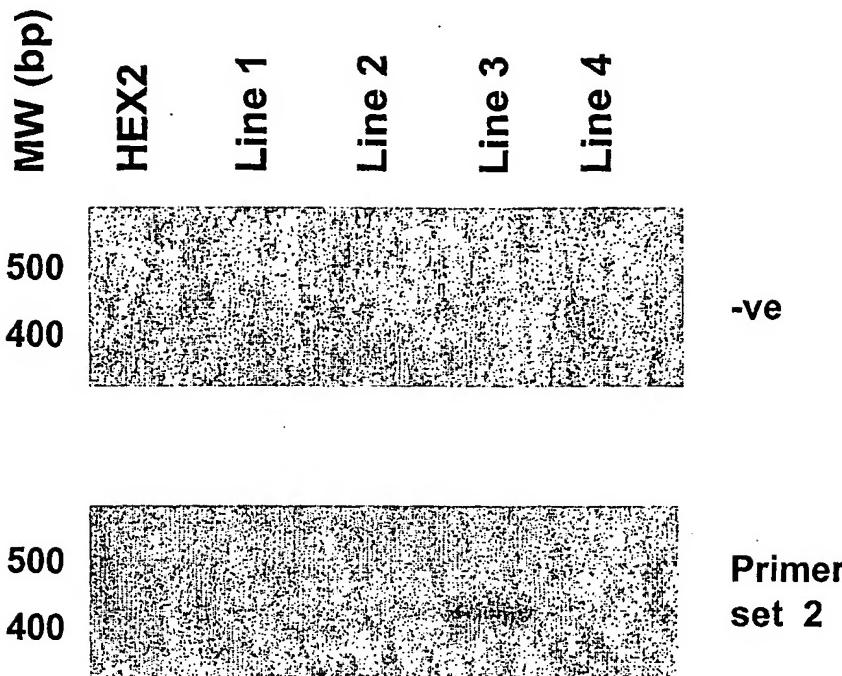
**FIGURE 18**

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**FIGURE 19**

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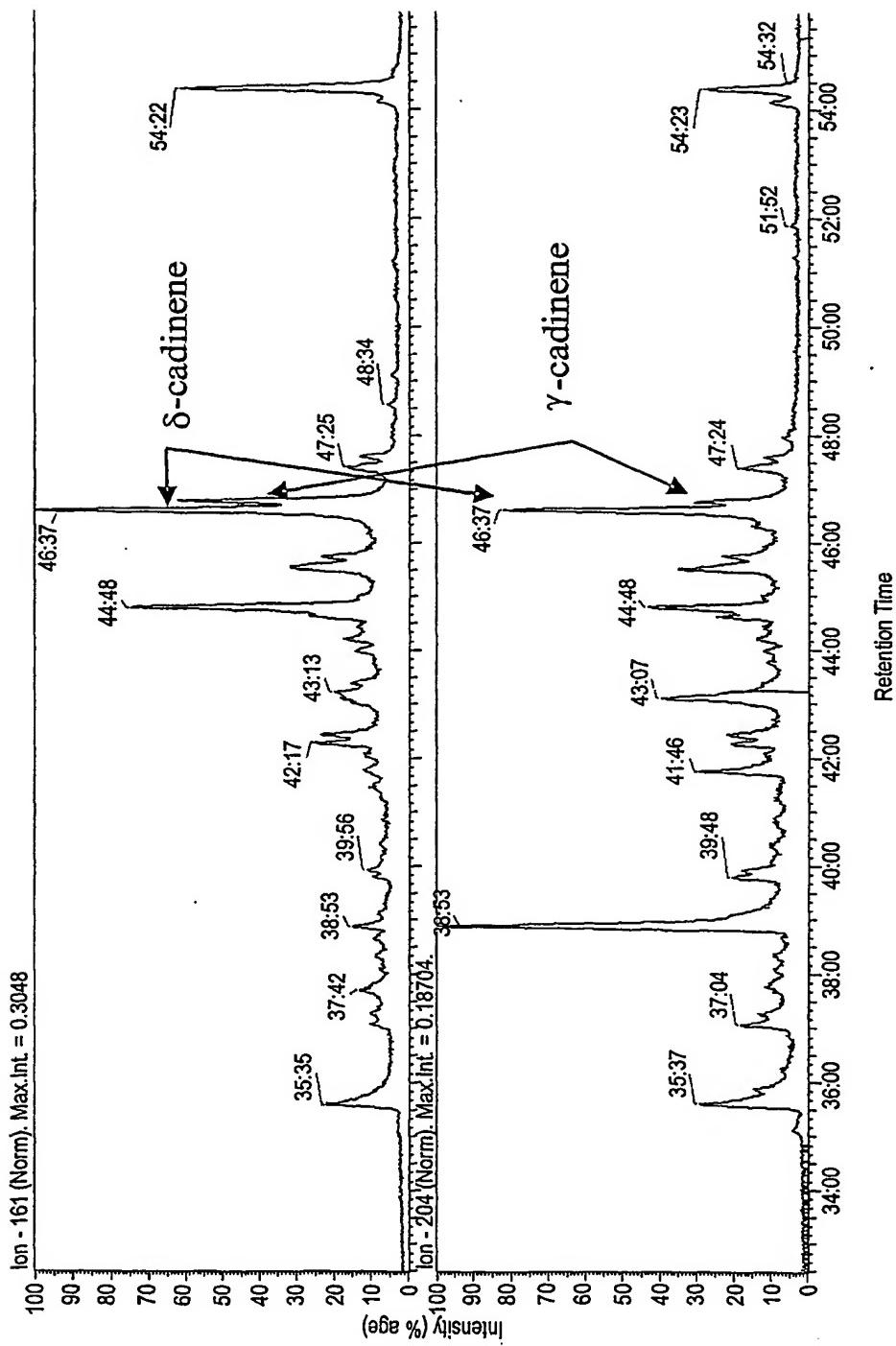


FIGURE 20

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